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OKLAHOMA

'73 WATERSHED PROGRESS REPORT



PROGRESS REPORT
CURRENT SERIES

SEP 3 '73

U.S. DEPT. OF AGRICULTURE
NATL. AG. EXT. SERVICE
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U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
STILLWATER, OKLAHOMA
SEPTEMBER 1973

STATUS OF WATERSHEDS IN OKLAHOMA

July 1973

PL-566

Projects Completed - - - - -	8
Approved for Operations - - - - -	44
Approved for Operations (inactive) - - - - -	8
Authorized for Planning - - - - -	9
Applications Pending - - - - -	<u>41</u>
Total Number of Projects - - - - -	110
Total Acres - - - - -	11,643,000

Flood Prevention (Washita River)

Sub-Watersheds Planned - - - - -	56
Sub-Watershed Construction Completed - - -	33
Sub-Watersheds Authorized for Planning - -	<u>4</u>
Total Number of Sub-Watersheds - - - - -	93
Total Acres - - - - -	4,940,410

Pilot-Double Creek

Completed - - - - -	1
Total Acres - - - - -	30,250

RC&D - Hydrologic Units

Planned - - - - -	3
Completed - - - - -	<u>3</u>
Total - - - - -	6
Total Acres - - - - -	47,270

TOTAL NUMBER OF PROJECTS - - - - - 210

TOTAL ACRES - - - - - 16,660,930

STRUCTURAL MEASURES

	FLOODWATER RETARDING STRUCTURES :		CHANNEL	
	Planned	: Completed	: Planned	: Completed
PL-566	1,383	641	351.0 (miles)	54.0
Washita	1,126	935	146.0	43.0
Pilot	6	6	-	-
RC&D	12	7	-	-
TOTAL	<u>2,527</u>	<u>1,589</u>	<u>497.0</u>	<u>97.0</u>

(*)
300 cup

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PROJECTS COMPLETED
PL-566

Bear, Fall and Coon Creeks Watershed (Lincoln, Logan and
Oklahoma Counties)

Sponsors: Logan County Conservation District
Lincoln County Conservation District
Oklahoma County Conservation District
Bear, Fall and Coon Creeks Water and Soil
Conservancy District No. 4

Authorized for Planning: April 15, 1955

Authorized for Operations: June 26, 1958

Completion Date: June 30, 1967

Measures Installed:

1 multipurpose structure with irrigation
30 floodwater retarding structures

Big Wewoka Creek Watershed (Pottawatomie, Seminole and
Hughes Counties)

Sponsors: Shawnee Conservation District
Seminole County Conservation District
Hughes County Conservation District
Wewoka Creek Water and Soil Conservancy
District No. 2

Authorized for Planning: February 9, 1955

Authorized for Operations: June 21, 1956

Completion Date: June 30, 1968

Measures Installed:

1 multipurpose structure with wildlife
41 floodwater retarding structures

Fourche Maline Creek Watershed (Latimer and LeFlore Counties)

Sponsors: Latimer County Conservation District
LeFlore County Conservation District
City of Wilburton
Wilburton Public Works Authority
Fourche Maline Conservancy District No. 10
Oklahoma Industrial Development and Parks Department
Oklahoma Department of Wildlife Conservation

Authorized for Planning: August 26, 1958

Authorized for Operations: August 29, 1960

Completion Date: June 30, 1972

Measures Installed:

- 1 multipurpose structure with municipal water (site 7)
- 1 multipurpose structure with recreation-wildlife water
- 12 floodwater retarding structures

Frogville Creek Watershed (Choctaw County)

Sponsors: Frogville Conservancy District No. 1
Kiamichi Conservation District

Authorized for Planning: January 14, 1963

Authorized for Operations: October 21, 1965

Completion Date: June 30, 1973

Measures Installed:

- 2 floodwater retarding structures
- 11.94 miles of channels completed

Little Deep Fork Creek Watershed (Lincoln, Creek and Okmulgee Counties)

Sponsors: Creek County Conservation District
Lincoln County Conservation District
Okmulgee County Conservation District
Little Deep Fork Conservancy District No. 1

Authorized for Planning: April 15, 1955

Authorized for Operations: April 3, 1958

Completion Date: June 30, 1973

Measures Installed:

56 floodwater retarding structures
5.8 miles of channel improvement

Little Wewoka - Graves Creek Watershed (Hughes, Seminole and
Okfuskee Counties)

Sponsors: Hughes County Conservation District
Seminole County Conservation District
Okfuskee County Conservation District
Wewoka Creek Water and Soil Conservancy District No. 2

Authorized for Planning: February 9, 1955

Authorized for Operations: June 21, 1956

Completion Date: June 30, 1972

Measures Installed:

16 floodwater retarding structures

Timber Creek Watershed (Beckham and Roger Mills Counties)

Sponsors: North Fork of Red River Conservation District
Upper Washita Conservation District
Timber Creek Conservancy District

Authorized for Planning: September 11, 1959

Authorized for Operations: August 31, 1960

Completion Date: June 30, 1968

Measures Installed:

7 floodwater retarding structures

Whitegrass-Waterhole Creek Watershed (McCurtain County)

Sponsors: Valliant Conservation District
Little River Conservation District
Whitegrass-Waterhole Water and Soil Conservancy District

Authorized for Planning: April 30, 1957

Authorized for Operations: July 25, 1958

Completion Date: June 30, 1967

Measures Installed:

9 floodwater retarding structures

Pilot Watershed

Double Creek Watershed (Osage and Washington Counties)

Sponsors: Caney Valley Conservation District
Osage County Conservation District
Kansas-Oklahoma Caney Watershed Council of Conservation
Districts

Authorized for Operations: November 1, 1954

Measures Installed:

6 floodwater retarding structures

PROJECTS APPROVED FOR OPERATIONS
PL-566

Brushy-Peaceable Creeks Watershed (Pittsburg and Latimer Counties)

Sponsors: Pittsburg County Conservation District
City of McAlester

Size: 212,912 acres

Land Ownership: 2 percent Indian land - 1.1 percent Negro operated -
8.9 percent tenant operated

Land Use: 2,125 acres cropland - 24,826 acres pastureland - 84,876 acres
grazed woodland - 92,303 acres rangeland - 848 acres wildlife
land - 7,214 miscellaneous

Authorized for Planning: November 22, 1965

Authorized for Operations: May 28, 1970

Estimated Total Cost of Project:

a. Federal	\$3,675,304
b. Other	<u>2,228,273</u>
Total	\$5,903,577

Land Treatment:

- a. Percent of land adequately protected: 68
- b. Percent of planned measures applied: 72

Watershed Problems:

Floodwater and sediment damage to agricultural land
Need for municipal water and recreation for the City of McAlester

Project Purposes:

Flood prevention
Municipal water
Wildlife land development

Structural Measures Planned:

2 multipurpose structures with municipal water
44 floodwater retarding structures

Structural Measures Installed:

None. A construction start has been authorized and two sites
are scheduled for construction in fiscal year 1974

Easement Status:

37 percent easements secured
16 sites cleared

Acres Flood Plain Protected by Project: 17,276

Case Histories of Watershed Project Benefits:

The easement drive was launched October 1970. A watershed tour of
two nearly completed watershed projects and a special rural-urban
watershed meeting has resulted in gaining considerable additional
support.

Cane Creek Watershed (Muskogee and Okmulgee Counties)

Sponsors: Okmulgee County Conservation District
Muskogee County Conservation District
Cane Creek Conservancy District

Size: 101,755 acres

Land Ownership: 2 percent Indian land - 13 percent Negro land -
85 percent other

Land Use: 37,108 acres cropland; 40,685 acres rangeland; 18,189 acres
pastureland; 2,254 acres woodland pasture; 3,519 acres
miscellaneous

Authorized for Planning: June 6, 1958

Authorized for Operations: September 8, 1961

Estimated Total Cost of Project:

a. Public Law 566 funds	\$1,488,996
b. Other	<u>1,673,793</u>
Total	\$3,162,789

Land Treatment:

- a. Percent of land adequately protected: 75
- b. Percent of planned measures applied: 68

Watershed Problems:

Floodwater and sediment damage to agricultural land
Flooding of state and federal highways and county roads
Flood hazards to bridges of roads and railroads

Project Purpose:

Flood prevention

Structural Measures Planned:

28 floodwater retarding structures

Structural Measures Installed:

18 floodwater retarding structures

Easement Status:

112 of 180 total easements secured

Acres Flood Plain Protected by Project: 7,399

Case History of Watershed Project Benefits:

Structures built to date have prevented flooding on the main stem of Cane Creek, Runoff from several rains, which would otherwise have caused flooding, has been confined to the channel. Land-owners, county commissioners and others have made many comments about the reduced flooding. No major flood has occurred on the main stem of the creek since the first ten structures were built.

One site has been made available as a standby water supply for Boynton. One site is leased to a sportsmen club. Owners are making use of sediment pool storage for irrigating gardens, supplying water for farmsteads, stock water, fishing, channel catfish production, etc.

Caney Creek Watershed (Atoka and Bryan Counties)

Sponsors: Atoka County Conservation District
Bryan County Conservation District
Lower Clear Boggy Conservancy District

Size: 20,541 acres

Authorized for Planning: February 15, 1957

Authorized for Operations: July 17, 1963

Estimated Total Cost of Project:

a. Public Law 566 funds	\$586,357
b. Other	<u>370,386</u>
Total	\$956,743

Land Treatment:

- a. Percent of land adequately protected: 93
- b. Percent of planned measures applied: 86

Watershed Problems:

Frequent and severe flooding

Project Purpose:

Flood prevention

Structural Measures Planned:

- 14 floodwater retarding structures
- 1.0 mile of outlet channel

Structural Measures Installed:

- 13 floodwater retarding structures
- 1.0 mile of outlet channel

Easement Status:

Efforts are being made to clear site 5 but no easements signed

Acres of Flood Plain Protected by Project: 2,222 acres

Case Histories of Watershed Project Benefits:

Unofficial report of 4-7 inches of rain fell over the watershed in 1967, 1968, 1969, 1970 and 1971. No structures flowed through the emergency spillway. All planned structures are complete on the main stream of Caney Creek above the point where Limestone Creek and Caney Creek merge. Only minor flooding occurred on the main stream above this point. Flooding did occur below the two creeks.

Caney-Coon Creek Watershed (Coal County)

Sponsors: Coal County Conservation District
City of Coalgate

Size: 23,571 acres

Authorized for Planning: January 28, 1959

Authorized for Operations: September 9, 1959

Estimated Total Cost of Project:

a. Public Law 566 funds	\$315,743
b. Other	<u>480,615</u>
Total	\$796,358

Land Treatment:

a. Percent of land adequately protected: 61

b. Percent of planned measures applied: 65

Watershed Problems:

Floodwater and sediment damage to agricultural land

Interruption of travel of State Highways 3 and 31, and to the
Coalgate Cemetery Road

Need for municipal water for City of Coalgate

Project Purposes:

Flood prevention

Municipal water

Structural Measures Planned:

1 multipurpose structure with municipal water

2 floodwater retarding structures

Structural Measures Installed:

1 multipurpose structure

Easement Status:

1 site clear for construction

Sponsors have secured all land rights on remaining site except
on two tracts of land consisting of 110 acres. Sponsors are
securing title to this land through the Court. This site is
expected to be cleared and ready for contracting on or before
September 1, 1973.

Acres Flood Plain Protected by Project: 765

Case Histories of Watershed Project Benefits:

Cannot be measured until completion of remaining two structures.

Canyon View Watershed Project (Canadian County)

Sponsors: Central North Canadian River Conservation District

Size: 8,890 acres

Land Ownership: 440 acres Indian land; 320 acres state owned; and
2,000 acres tenant operated

Land Use: 3,200 acres cropland - 5,423 acres pasture and rangeland -
267 acres miscellaneous

Authorized for Planning: April 10, 1967

Authorized for Operations: June 27, 1968

Estimated Total Cost of Project:

a. Public Law 566 funds	\$283,456
b. Other	<u>154,804</u>
Total	\$438,260

Land Treatment:

a. Percent of land adequately protected: 92

b. Percent of planned measures applied: 75

Watershed Problems:

Floodwater and sediment damage to agricultural lands and county roads

Project Purposes:

Flood prevention

Structural Measures Planned:

4 single purpose floodwater retarding structures

1.92 miles of waterway

Structural Measures Installed:

Two sites constructed, two sites and waterway under construction

Easement Status:

All land rights or options have been obtained and recorded

Acres Flood Plain Protected by Project: 564

Case Histories of Watershed Project Benefits:

The project when complete will control floodwaters in the flood plain area with major benefits being received by both private and public properties. Recreation will be provided in lakes formed by structures and wildlife habitats developed around structures. The two constructed sites afforded protection from minor flooding during the spring of 1973.

Caston-Mountain Creeks Watershed (LeFlore County)

Sponsors: LeFlore County Conservation District
Caston-Mountain Creeks Conservancy District No. 2
Town of Wister

Size: 47,853

Land Ownership: 1 percent Indian land - 99 percent owner-operated

Land Use: 1,245 acres cropland - 7,945 acres pastureland - 37,515 acres
woodland - 1,148 nonagricultural

Authorized for Planning: March 22, 1965

Authorized for Operations: October 12, 1966

Estimated Total Cost of Project:

a. Public Law 566 Funds	\$1,851,000
b. Other	<u>387,700</u>
Total	\$2,238,700

Land Treatment:

a. Percent of land adequately protected: 90

b. Percent of planned measures applied: 77

Watershed Problems:

Floodwater and sediment damage to agricultural land

Flood protection for Town of Wister, Oklahoma

Project Purposes:

Flood prevention

Structural Measures Planned:

5 floodwater retarding structures

Structural Measures Installed:

Construction complete on site No. 1

Easement Status:

Sites Nos. 1, 2, 4 and 5 - easements obtained for construction

Site No. 3 has approximately 40 percent of land acquired by easement

Acres of Flood Plain Protected by Project: 2,668

Case Histories of Watershed Project Benefits:

Site No. 1 has been mitigated for wildlife

Site No. 1 helped prevent a major flood disaster to the east part
of the Town of Wister during an 8-inch rain on December 9, 1971

Sites Nos. 2 and 4 are under construction

Cotton-Coon-Mission Creek Watershed (Nowata, Osage and Washington
Counties, Oklahoma; Chautauqua
County, Kansas

Sponsors: Conservancy District No. 26, Oklahoma
Caney Valley Conservation District, Oklahoma
Nowata County Conservation District, Oklahoma
Osage County Conservation District, Oklahoma
City of Dewey, Oklahoma
Town of Wann, Oklahoma
Chautauqua County Soil Conservation District, Kansas

Size: 198,170 acres

Land Ownership: Indian land, 1 percent - Federal 1 percent -
absentee ownership 15 percent - owner operator
83 percent

Land Use: 14,500 acres, cropland - 67,500 acres rangeland - 22,000 acres
tame pasture - 6,000 acres woodland - 6,960 acres miscellaneous

Authorized for Planning: November 16, 1964

Authorized for Operation: April 1, 1969

Estimated Total Cost of Project:

a. Public Law 566 funds	\$2,185,859
b. Other	2,280,269
Total	<u>\$4,466,128</u>

Land Treatment:

- a. Percent of land adequately protected: 60
- b. Percent of planned measures applied: 78

Watershed Problems:

Floodwater and sediment damage to agricultural land
Need for municipal water for Wann and City of Dewey
Need for water-based recreation development for Dewey
and nearby cities and communities

Project Purposes:

Flood prevention, recreation and municipal water

Structural Measures Planned:

- 1 multipurpose structure with recreation and municipal water
- 1 multipurpose structure with municipal water
- 13 floodwater retarding structures

Structural Measures Installed:

None

Easement Status:

- 2 sites are cleared for construction
- 16 of 79 total easements have been secured

Acres of Flood Plain Protected by Project: 5,392

Case History of Watershed Project Benefits:

No structures installed at this date

Cottonwood Creek Watershed (Kingfisher, Logan, Canadian and Oklahoma Counties)

Sponsors: Cottonwood Creek Conservancy District No. 11
Kingfisher County Conservation District
Logan County Conservation District
Canadian County Conservation District
Oklahoma County Conservation District

Size: 242,470 acres

Authorized for Planning: September 26, 1960

Authorized for Operations: October 4, 1962

Estimated Total Cost of Project:

a. Public Law 566 funds	\$3,761,755
b. Other	<u>1,649,595</u>
Total	\$5,411,350

Land Treatment:

- a. Percent of land adequately protected: 70
- b. Percent of planned measures applied: 80

Watershed Problems:

Floodwater and sediment damage to agricultural lands, county roads, bridges and the City of Guthrie

Project Purposes:

Flood prevention, recreation

Structural Measures Planned:

Because of urbanization in the upper area of the watershed the work plan is being revised to delete structures with excessive problems

Structural Measures Installed:

13 dams have been built

3 are under contract and will be completed by September 1974

Easement Status:

141 of 285 easements have been obtained

Of 7 sites still planned for construction, 35 easements are needed

Acres Flood Plain Protected by Project: 16,000

Case Histories of Watershed Project Benefits:

Although no severe flooding rains have occurred on the watershed since 1965, rain did occur in 1967 which caused flooding on Deer Creek and Chisholm Creek. No flooding occurred on Cottonwood above Deer Creek. It was evident that this protection was due to five flood retarding structures on the headwaters of Cottonwood Creek. Some sites are being developed into excellent recreation facilities to meet this increasing demand. Sites are presently being used for fishing, boating and summer homes.

Cow Creek Watershed (Stephens and Jefferson Counties)

Sponsors: Stephens County Conservation District
Jefferson County Conservation District
City of Duncan
Cow Creek Conservancy District
Cow Creek Watershed Association

Size: 122,880 acres

Land Ownership: About 2 percent Indian land

Land Use: 23,275 acres cropland - 19,990 acres pastureland -
76,041 acres rangeland - 4,188 acres miscellaneous uses

Authorized for Planning: July 3, 1967

Authorized for Operations: May 29, 1973

Estimated Total Cost of Project:

a. Public Law 566 funds	\$3,692,449
b. Other	<u>2,054,567</u>
Total	\$5,747,016

Land Treatment:

- a. Percent of land adequately protected: 93
- b. Percent of planned measures applied: 60

Watershed Problems:

Floodwater and sediment damage to agricultural and municipal interests

Need for water oriented recreation for the City of Duncan

Project Purposes:

Floodwater prevention and recreation

Structural Measures Planned:

- 1 multipurpose structure for recreation
- 45 floodwater retarding structures
- 2.5 miles of stream channel improvement

Structural Measures Installed:

None

Easement Status:

- No easements have been secured in Stephens County CD
- 10 easements have been secured in Jefferson County CD and
- 10 more are needed

Acres of Flood Plain Protected by Project: 12,462

Case Histories of Watershed Project Benefits:

No structural measures have been installed

Deep Red-Run-Coffin Creek Watershed (Tillman, Kiowa and Comanche
Counties)

Sponsors: Tillman County Conservation District
Kiowa County Conservation District
Comanche County Conservation District
City of Frederick

Size: 58,600

Authorized for Planning: December 9, 1969

Authorized for Operations: June 29, 1971

Estimated Total Cost of Project:

a. Public Law 566 funds	\$1,388,563
b. Other	<u>1,687,894</u>
Total	\$3,076,457

Land Treatment:

Percent of land adequately protected: 75

Watershed Problems:

Need for municipal water and recreation for city of Frederick
Floodwater and sediment damage to agricultural land

Project Purposes:

Watershed protection, flood prevention, recreation and municipal
water supply for city of Frederick

Structural Measures Planned:

1 multipurpose structure with municipal water and recreation
1 multipurpose structure with municipal water

Structural Measures Installed:

None

Easement Status:

City of Frederick has voted bonds to purchase landrights for
two multipurpose structures

Acres Flood Plain Protected by Project: 573

Case Histories of Watershed Project Benefits:

No structures have been installed to date

Delaware Creek Watershed (Atoka, Coal, Johnston and Pontotoc Counties)

Sponsors: Atoka County Conservation District
Bryan County Conservation District
Coal County Conservation District
Johnston County Conservation District
Lower Clear Boggy Conservancy District

Size: 50,016 acres

Authorized for Planning: September 26, 1960

Authorized for Operations: October 4, 1962

Estimated Total Cost of Project:

a. Public Law 566 funds	\$1,415,975
b. Other	<u>322,745</u>
Total	\$1,738,720

Land Treatment:

- a. Percent of land adequately protected: 89
- b. Percent of planned measures applied: 87

Watershed Problems:

Frequent and severe flooding

Project Purpose:

Flood prevention and recreation

Structural Measures Planned:

14 floodwater retarding structures

Structural Measures Installed:

12 floodwater retarding structures

Easement Status:

Site 4 - 6 easements required, 3 signed

Site 14A - 2 easements required, 1 signed

Site 14C - 1 easement signed. A detailed survey will be made to determine whether site is cleared for construction

Acres Flood Plain Protected by Project: 7,208 acres

Case History of Watershed Project Benefits:

Unofficial reports of 5-9 inches of rain occurred in the above watershed in the springs of 1967, 1968, 1969, 1970 and 1971.

There was major flooding on the main stream below Sandy and Walnut Creeks. None of the structures flowed through the emergency spillways. The structures have been effective on the upper end of the creek where all planned structures are in place. Site 9 is partially located on Camp Simpson, a Boy Scout Camp.

Fitzgerald and Soldier Creeks Watershed (Logan County)

Sponsors: Logan County Conservation District
Fitzgerald-Soldier Creek Conservancy District
Joint Board of Administration for the Board of Regents
for Oklahoma A&M College
Langston Public Works Authority
Coyle Public Works Authority

Size: 19,776 acres

Land Ownership: 83 percent owner operated - 17 percent tenant
operated

Land Use: 2,548 acres cropland - 14,406 acres rangeland -
2,000 acres tame pasture - 1,822 acres miscellaneous

Authorized for Planning: November 22, 1965

Authorized for Operations: April 1, 1969

Estimated Total Cost of Project:

a. Public Law 566 funds	\$688,904
b. Other	<u>114,681</u>
Total	\$803,585

Land Treatment:

- a. Percent of land adequately protected: 88
- b. Percent of planned measures applied: 77

Watershed Problems:

Protection from sediment and scour damage to 1,672 acres of
agricultural lands, damage to farm properties, roads, bridges
and reduction of flooding in the town of Coyle

Project Purposes:

Flood prevention
Municipal water

Structural Measures Planned:

- 1 multipurpose structure with municipal water
- 4 floodwater retarding structures

Structural Measures Installed:

Site 3M multipurpose structure, a water supply for Langston
College and the town of Langston, has been completed with funds
other than PL-566

Easement Status:

- 15 of the 18 needed land easements are recorded
- 6 of 7 utility permits obtained

Acres Flood Plain Protected by Project: 1672

Case Histories of Watershed Project Benefits:

When installed, this project will prevent flooding to bottom land
and the town of Coyle, and furnish municipal water for the city
of Langston and Langston University. The sponsor has requested the
use of cost-share funds to develop basic recreation facilities
around the multipurpose structure. This proposal has been
approved and planning is now in progress.

Four Mile Creek Watershed (Canadian County)

Sponsors: East Canadian County Conservation District
Central North Canadian Conservation District
City of El Reno, Oklahoma

Size: 15,360 acres

Authorized for Planning: August 9, 1963

Authorized for Operations: September 25, 1964

Estimated Total Cost of Project:

a. Public Law 566 funds	\$ 753,738
b. Other	385,341
Total	<u>\$ 1,139,079</u>

Land Treatment:

- a. Percent of land adequately protected: 90
- b. Percent of planned measures applied: 85

Watershed Problems:

Floodwater and sediment damage to agricultural lands, county roads and the City of El Reno.

Project Purpose:

Flood prevention and recreation

Structural Measures Planned:

- 1 multipurpose flood prevention structure for recreation
- 4.8 miles of channel improvement

Structural Measures Installed:

- Multipurpose structure
- Channel No. 1 completed
- Lower segment of channel No. 2 completed
- Upper segment of channel No. 2 near completion

Easement Status:

All land easements and rights-of-way acquired

Acres Flood Plain Protected by Project: 3,053 acres

Case Histories of Watershed Project Benefits:

A large flooding rain occurred in June 1970 after completion of channel No. 1 and no flooding was experienced along this channel. The multipurpose structure, Lake El Reno, with recreation features provides excellent recreation facilities for the people of El Reno and surrounding area. Some of the highlights at Lake El Renowere its selection for one of the lakes for the state fishing championship contest, an annual youth fishing derby with approximately 2000 participants, the annual Fourth of July fireworks and performance with 5000 to 6000 visitors. The 21st Annual International Land, Range and Pasture Judging contest was held at this lake with 2500 contestants and visitors. Also, the annual American Indian Pow-Wow is held here with as many as 2500 visitors from all over the United States. Many of the people in El Reno and surrounding area just drive through to enjoy the esthetic beauty of the project.

Garrison Creek Watershed (Sequoyah County)

Sponsors: Garrison Creek Conservancy District
Sequoyah County Conservation District

Size: 21,521 acres

Land Ownership: 8 percent absentee - 90 percent owner operator -
2 percent Indian land

Land Use: 7,747 acres cropland - 1,076 wetland - 4,304 acres tame
pasture - 7,534 acres pasture woodland - 860 acres
miscellaneous

Authorized for Planning: February 15, 1965

Authorized for Operations: April 1, 1969

Estimated Total Cost of Project:

a. Public Law 566 funds	\$696,233
b. Other	<u>337,334</u>
Total	\$1,033,567

Land Treatment:

- a. Percent of land adequately protected: 20
- b. Percent of planned measures applied: 85

Watershed Problems:

Floodwater and sediment damage to agricultural land
Agricultural water management

Project Purposes:

Flood prevention and agricultural water management

Structural Measures Planned:

- 4 Floodwater retarding structures
- 19.11 miles of channel improvement

Structural Measures Installed:

None

Easement Status:

Have 13 of the 47 total easements

Acres of Flood Plain Protected: 6,750

Case Histories of Watershed Project Benefits:

The need still exists; however, the enthusiasm diminished
from planning to approval. Additional interest is being
expressed at present by local sponsors.

Jack Creek Watershed (Tillman and Comanche Counties)

Sponsors: Tillman County Conservation District
Comanche County Conservation District
Jack Creek Conservancy District

Size: 45,709 acres

Authorized for Planning: September 19, 1966

Authorized for Operations: April 1, 1969

Estimated Total Cost of Project:

a. Public Law 566 funds	\$1,243,759
b. Other	738,563
Total	<u>\$1,982,322</u>

Land Treatment:

a. Percent of land adequately protected: 60
b. Percent of planned measures applied: 75

Watershed Problems:

Floodwater damage to agricultural land

Project Purposes:

Flood prevention (irrigation on site 3)

Structural Measures Planned:

10 single-purpose retarding structures
1 multipurpose structure
1 release channel

Structural Measures Installed:

None

Easement Status:

6 sites are cleared for construction (2A, 2B, 3, 7, 8, 9)
(detailed plan needed)
90 percent of easements secured

Acres Flood Plain Protected by Project: 3,985

Case Histories of Watershed Project Benefits:

No structures built

Kadashan Bottom Watershed (Wagoner County)

Sponsors: Wagoner County Conservation District
Kadashan Conservancy District

Size: 9,326 acres

Land Ownership: 305 acres Indian land; 5,413 acres absentee ownership -
3,608 acres owner operated

Land Use: 2,518 acres cropland; 6,248 acres pasture and range;
560 acres miscellaneous

Authorized for Planning: September 23, 1968

Authorized for Operations: December 2, 1971

Estimated Total Cost of Project:

a. Public Law 566 funds	\$526,277
b. Other	<u>325,055</u>
Total	\$851,332

Land Treatment:

- a. Percent of land adequately protected: 55
- b. Percent of planned measures applied: 60

Watershed Problems:

Flood damages to crops, pasture, farm property and public roads
Lack of adequate conservation treatment
Inadequate channels
Lack of conservation, development and utilization of fish and
wildlife resources

Project Purpose:

Flood prevention

Structural Measures Planned:

6 floodwater retarding structures
5.6 miles of channel improvement

Structural Measures Installed:

None

Easement Status:

1 site cleared for construction
14 easements secured
33 easements remaining

Acres of Flood Plain Protected by Project: 2,089

Case Histories of Watershed Project Benefits:

No structures installed at this date

Lambert Creek Watershed (Alfalfa County)

Sponsors: Alfalfa County Conservation District
Lambert Creek Conservancy District

Size: 7,488 acres

Land Ownership: All deeded land

Land Use: Range, 823 acres; crop, 6,365 acres; roads, etc., 300 acres

Authorized for Planning: October 5, 1964

Authorized for Operations: November 24, 1965

Estimated Total Cost of Project:

a. Public Law 655 funds	\$317,574
b. Other	<u>159,360</u>
Total	\$476,934

Land Treatment:

- a. Percent of land adequately protected: 70
- b. Percent of planned measures applied: 83

Watershed Problems:

Floodwater damage, flood plain scour, sediment and erosion
damage to agricultural and non-agricultural land

Project Purposes:

Flood prevention

Structural Measures Planned:

- 2 floodwater retarding structures
- 7.3 miles of channel improvement

Structural Measures Installed:

- Two floodwater retarding structures
- Channel is under construction

Easement Status:

All easements and rights-of-way have been secured

Acres Flood Plain Protected by Project: 583 acres plus 690 acres of
benefitted area outside the watershed

Case Histories of Watershed Project Benefits:

Two sites are completed, landowners desire dry lakes which
increase their effectiveness for flood prevention. Both
floodwater retarding lakes filled with water in spring of 1973
greatly reducing damage downstream to both agricultural land and
channel construction which is underway.

Leader-Middle Clear Boggy Creek Watershed (Pontotoc and Coal Counties)

Sponsors: Coal County Conservation District
Pontotoc County Conservation District
Upper Clear Boggy Conservancy District No. 5

Size: 107,968 acres

Authorized for Planning: June 6, 1958

Authorized for Operations: August 29, 1960

Estimated Total Cost of Project:

a. Public Law 566 funds	\$1,156,349
b. Other	<u>1,413,584</u>
Total	\$2,569,933

Land Treatment:

- a. Percent of land adequately protected: 37
- b. Percent of planned measures applied: 48

Watershed Problems:

Floodwater and sediment damage to agricultural lands
Interruption of travel on State Highways 3 and 31
Flood damages to county roads and bridges

Project Purpose:

Flood prevention

Structural Measures Planned:

43 floodwater retarding structures

Structural Measures Installed:

32 floodwater retarding structures

Easement Status:

One site is under construction
123 of 241 easements have been secured

Acres Flood Plain Protected by Project: 7,172

Case Histories of Watershed Project Venefits:

Effectiveness is limited to only 37 percent control. Landowners and operators within the watershed estimate that the degree of flooding has decreased. Land improvement in the bottom lands and upland is increasing, more fertilizer is being used, and other improvements are being made resulting in economic gains for the area.

Long Branch Creek Watershed (Payne and Noble Counties)

Sponsors: Noble County Conservation District
Payne County Conservation District
Black Bear Conservancy District

Size: 28,160 acres

Land Ownership: 3 percent Indian land - 97 percent deeded land

Land Use: 38 percent cropland - 59 percent pasture and range -
3 percent other

Authorized for Planning: January 25, 1955

Authorized for Operations: June 21, 1956

Estimated Total Cost of Project:

a. Public Law 566 Funds	\$283,986
b. Other	<u>340,053</u>
Total	\$624,039

Land Treatment:

a. Percent of land adequately protected: 75
b. Percent of planned measures applied: 85

Watershed Problems:

Floodwater and sediment damage to agricultural and non-
agricultural land
Upland flood plain erosion

Project Purposes:

Flood prevention

Structural Measures Planned:

11 floodwater retarding structures

Structural Measures Installed:

8 floodwater retarding structures

Easement Status:

2 sites are cleared for construction and only one easement is
needed to clear the last remaining site; 12 of the 13 total
easements have been secured

Project re-activated February 1973

Acres Flood Plain Protected by Project: 2,583

Case Histories of Watershed Project Benefits:

Minor flooding occurred once. Damage was light. Sponsors have
been working diligently to secure easements to finish the
project. Two sites serve as water supply for Morrison and for
a rural water district which serves about 170 rural families.

Lost-Duck Creeks Watershed (Kay County)

Sponsors: Western Kay County Conservation District
Arkansas River Kay County Conservation District
Lost Creek Conservancy District No. 1
Duck Creek Conservancy District No. 1

Size: 55,040 Acres

Land Ownership: 5 percent school land - 95 percent deeded land

Land Use: 74 percent cropland - 20 percent pasture and range -
6 percent other

Authorized for Planning: February 12, 1968

Authorized for Operations: June 18, 1970

Estimated Total Cost of Project:

a. Public Law 566 funds	\$1,579,949
b. Other	990,426
Total	<u>\$2,570,375</u>

Land Treatment:

- a. Percent of land adequately protected: 75
- b. Percent of planned measures applied: 65

Watershed Problems:

Problems include a lack of conservation treatment on the land, inadequate channels, and flood damage to crops, pastures, farm property, railroad property, public roads, culverts and bridges.

Project Purposes:

Flood prevention

Structural Measures Planned:

- a. 12 floodwater retarding structures
- b. 12.75 (approximately) miles of channel improvement

Structural Measures Installed:

None

Easement Status:

No sites are cleared for construction; 32 of 60 total easements have been secured. None of 39 rights-of-way have been secured.

Acres of Flood Plain Protected by Project: 9,654

Case Histories of Watershed Project Benefits:

Contracting or construction has not started on this project. When installed, this project will reduce sediment yield from the watershed and reduce flood damages on 9,654 acres of flood plain below the structure locations.

Lower Bayou Creek Watershed (Love and Carter Counties)

Sponsors: Love County Conservation District
Arbuckle Conservation District

Size: 95,448 acres

Authorized for Planning: June 26, 1961

Authorized for Operations: June 17, 1964

Estimated Total Cost of Project:

a. Public Law 566 funds	\$4,582,377
b. Other	<u>1,250,665</u>
Total	\$5,833,042

Land Treatment:

- a. Percent of land adequately protected: 52
- b. Percent of planned measures applied: 71

Watershed Problems:

Floodwater and sediment damage to agricultural land
Drainage of Simon and Walnut Bayou Creek bottom land

Project Purposes:

Flood prevention and channel enlargement of principal streams

Structural Measures Planned:

19 floodwater retarding structures
38.17 miles channel improvement

Structural Measures Installed

Sites 7, 10, 13, 14, 17, and 18

Easement Status:

13 sites are cleared for construction
66 easements of 232 easements are secured

Acres Flood Plain Protected by Project: 13,516

Case Histories of Watershed Project Benefits:

Construction is complete on six sites. These sites have contained in excess of 600 acre feet of water that would have caused more flooding downstream.

Lower Black Bear Watershed (Pawnee, Payne and Noble Counties)

Sponsors: Pawnee County Conservation District
Payne County Conservation District
Noble County Conservation District
Black Bear Conservancy District

Size: 157,683 acres

Land Ownership: 9 percent Indian land; 12 percent deeded tenant

Land Use: 43,570 acres cropland - 90,036 acres pasture and rangeland;
19,937 woodland pasture; 4,140 acres miscellaneous

Authorized for Planning: November 16, 1964

Authorized for Operations: April 1, 1969

Estimated Total Cost of Projects:

a. Public Law 566 funds	\$2,688,286
b. Other	<u>1,299,402</u>
Total	\$3,987,688

Land Treatment:

- a. Percent of land adequately protected: 72
- b. Percent of planned measures applied: 55

Watershed Problems:

Floodwater damage to cropland, roads and bridges, urban area of Pawnee, sediment damage to Keystone Reservoir, sheet erosion, scour damage in flood plain and channel scour

Project Purposes:

Flood prevention - reduce flood damage to City of Pawnee and agricultural areas; also amendment is being prepared to include municipal water on site 19 for four town and rural water districts

Structural Measures Planned:

26 floodwater retarding structures

Structural Measures Installed:

None

Easement Status:

10 sites are cleared for construction and 100 easements secured of a total of 175 needed

Acres in Flood Plain Protected by Project: 11,921

Case Histories of Watershed Project Benefits:

Contract has been awarded for three sites but only timber contract is complete.

Lower Clear Boggy Creek Watershed (Atoka, Coal, Bryan and
Johnston Counties)

Sponsors: Atoka County Conservation District
Coal County Conservation District
Bryan County Conservation District
Johnston County Conservation District
Lower Clear Boggy Conservancy District

Size: 240,301 acres

Authorized for Planning: September 26, 1960

Authorized for Operations: March 16, 1964

Estimated Total Cost of Project:

a. Public Law 566 funds	\$2,487,929
b. Other	<u>2,979,994</u>
Total	\$5,467,923

Land Treatment:

- a. Percent of land adequately protected: 89
- b. Percent of planned measures applied: 77

Watershed Problems:

Frequent and severe flooding

Project Purpose:

Flood prevention

Structural Measures Planned:

- 27 floodwater retarding structures
- 2.02 miles channel improvement

Structural Measures Installed:

None

Easement Status:

The supplement to the work plan is in Washington awaiting approval. No easements were obtained during the year.
Time limit on first easements will expire in 1974.

Acres in Flood Plain Protected by Project: 20,443

Case History of Watershed Project Benefits:

No structures built to date.

Lower Red Rock Creek Watershed (Noble and Pawnee Counties)

Sponsors: Noble County Conservation District
Pawnee County Conservation District
Red Rock Conservancy District

Size: 116,582 acres

Land Ownership: 20 percent Indian land - 5 percent school land
75 percent deeded land

Land Use: 43 percent cropland - 53 percent range and pasture -
4 percent other

Authorized for Planning: July 25, 1966

Authorized for Operations: April 1, 1969

Estimated Total Cost of Project:

a. Public Law 566 funds	\$2,364,944
b. Other	<u>1,417,420</u>
Total	\$3,782,364

Land Treatment:

a. Percent of land adequately protected: 75
b. Percent of planned measures applied: 65

Watershed Problems:

Floodwater damage to agricultural and nonagricultural land.
Sediment damage, overbank deposition, erosion damage and
flood plain scour.

Project Purposes:

Flood prevention

Structural Measures Planned:

26 floodwater retarding structures

Structural Measures Installed:

None

Easement Status:

5 sites are cleared for construction and 43 of 120 total
easements secured. None of 26 rights-of-way have been secured.

Acres Flood Plain Protected by Project: 12,815

Case Histories of Watershed Project Benefits:

No structures built to date

Okfuskee Tributaries Watershed (Creek, Okfuskee and Okmulgee Counties)

Sponsors: Creek County Conservation District
Okfuskee County Conservation District
Okmulgee County Conservation District
City of Okmulgee

Size: 201,575 acres

Land Ownership: 5 percent Indian - 28 percent tenant operated

Land Use: 18,363 acres cropland - 39,730 acres pastureland -
61,672 acres woodland pasture - 4,817 acres wildlife and
recreation land - 4,607 acres miscellaneous

Authorized for Planning: November 22, 1965

Authorized for Operations: April 1, 1969

Estimated Total Cost of Project:

a. Public Law 566 funds	\$3,447,990
b. Other	<u>2,643,385</u>
Total	\$6,091,375

Land Treatment:

- a. Percent of land adequately protected: 57
- b. Percent of planned measures applied: 63

Watershed Problems:

Floodwater, drainage, scour damage and sediment damage to
agricultural lands

Need for municipal water and recreation for Town of Okmulgee

Project Purposes:

Flood prevention, municipal water and irrigation

Structural Measures Planned:

- 1 multipurpose structure with recreation and municipal water
- 1 multipurpose structure with irrigation water
- 33 floodwater retarding structures
- 14 miles channel improvement

Structural Measures Installed:

None

Easement Status:

17 sites are cleared for construction and 170 of 258 total
easements secured

Acres Flood Plain Protected by Project: 11,301

Case Histories of Watershed Project Benefits:

No installations have been made; however, the land treatment
program has affected the amount of runoff in the watershed.
Installation of 35 structures and 14 miles of channel improvement
are expected to produce annual benefits of \$325,062. Benefit
cost ratio is 1.85 to 1. Recreation will be provided in the
lakes formed by the structures and some wildlife habitat develop-
ment is planned.

Okmulgee Creek Watershed (Okmulgee County)

Sponsors: Okmulgee County Conservation District
Okmulgee Creek Conservancy District
City of Okmulgee
Okmulgee County Commissioners

Size: 14,490 acres

Land Ownership: 2 percent Indian land - 5 percent tenant operated

Land Use: 1,130 acres cropland - 9,592 acres range - 1,029 acres
pastureland - 2,739 acres urban

Authorized for Planning: December 18, 1961

Authorized for Operations: June 17, 1964

Estimated Total Cost of Project:

a. Public Law 566 Funds	\$1,378,086
b. Other	332,891
Total	<u>\$1,710,977</u>

Land Treatment:

- a. Percent of land adequately protected: 87
- b. Percent of planned measures applied: 75

Watershed Problems:

Floodwater, scour and sediment damage on agricultural land
and within the City of Okmulgee

Project Purposes:

Flood prevention

Structural Measures Planned:

- 2 floodwater retarding structures
- 3.47 miles of channel improvement

Structural Measures Installed:

- 2 floodwater retarding structures

Easement Status:

Easements and rights-of-way have been obtained on lower
segment of channel improvement. Eighty-one of one hundred and
three easements have been acquired on middle and upper sections.

Acres of Flood Plain Protected by Project: 863

Case Histories of Watershed Project Benefits:

Flooding has not occurred within the City of Okmulgee since
the first structure was built in 1966. Several rains have fallen
which would have produced heavy flooding in the City of Okmulgee
without structures. An unofficial 8.4 inches fell Labor Day
weekend in 1971. There was no flooding in the City of Okmulgee
as a result of the two structures completed. After completing the
channel improvement, 347 acres of urban area within the City of
Okmulgee will be protected from a 100-year frequency rain (flood
of record).

Otter Creek Watershed (Kiowa, Tillman and Comanche Counties)

Sponsors: Kiowa County Conservation District
Tillman County Conservation District
Comanche County Conservation District

Size: 184,200 acres

Authorized for Planning: January 11, 1962

Authorized for Operations: August 22, 1966

Estimated Total Cost of Project:

a. Public Law 566 funds	\$ 801,880
b. Other	<u>2,230,045</u>
Total	\$3,031,925

Land Treatment:

- a. Percent of land adequately protected: 80
- b. Percent of planned measures applied: 80

Watershed Problems:

Floodwater and sediment damage to agricultural land

Project Purpose:

Flood prevention

Structural Measures Planned:

7 floodwater retarding structures

Structural Measures Installed:

2

Easement Status:

5 sites cleared for construction

12 easements needed on 2 additional sites

Acres Flood Plain Protected by Project: 7,272

Case Histories of Watershed Project Benefits:

Sites 3 and 4 were completed in late fall of 1972 and were filled to principal spillway and flowed without using emergency spill or flooding crops and rangeland below due to above normal rains during fall and winter of 1972 and spring of 1973.

Paint Creek Watershed (Harper County)

Sponsors: Harper County Conservation District
Town of Laverne

Size: 15,929 acres

Land Ownership: 90 percent owner operated; 7 percent tenant operated;
3 percent state land

Land Use: 10,078 acres rangeland; 5,135 acres cropland; 150 acres
pasture; 664 acres other uses

Authorized for Planning: July 1968

Authorized for Operations: May 28, 1970

Estimated Total Cost of Project:

a. Public Law 566 funds	\$176,548
b. Local sponsors	<u>93,502</u>
Total	\$270,050

Land Treatment:

- a. Percent of land adequately protected: 74
- b. Percent of planned measures applied: 70

Watershed Problems:

Floodwater and sediment damage to agricultural land
Floodwater and sediment damage to Town of Laverne
Need for recreation for Town of Laverne

Project Purposes:

Flood prevention

Structural Measures Planned:

- 1 multipurpose structure with recreation
- 1 floodwater retarding structure
- 1.04 miles channel improvement

Structural Measures Installed:

None

Easement Status:

All of easements secured

Acres Flood Plain Protected by Project: 1,478

Case Histories of Watershed Project Benefits:

No structures installed to date

Pryor Creek Watershed (Mayes, Rogers and Craig Counties)

Sponsors: Mayes County Conservation District
Rogers County Conservation District
Craig County Conservation District
Pryor Creek Conservancy District

Size: 175,488 acres

Land Ownership: 75 percent owner operated - 16 percent absentee
tenant - 6 percent federal and state

Land Use: 157,939 acres pasture - 12,284 acres cropland -
5,265 acres other

Authorized for Planning: January 6, 1967

Authorized for Operations: August 27, 1969

Estimated Total Cost of Project:

a. Public Law 566 funds	\$2,105,152
b. Other	<u>1,990,290</u>
Total	\$4,095,442

Land Treatment:

- a. Percent of land adequately protected: 55
- b. Percent of planned measures applied: 70

Watershed Problems:

Floodwater and sediment damage to agricultural land

Project Purpose:

Flood prevention

Structural Measures Planned:

36 Floodwater retarding structures

Structural Measures Installed:

None

Easement Status:

- 6 sites are cleared for construction
- 59 of 195 easements have been secured

Acres of Flood Plain Protected by Project: 12,441

Case Histories of Watershed Project Benefits:

No structures installed at this date

Quapaw Creek Watershed (Lincoln and Pottawatomie Counties)

Sponsors: Lincoln County Conservation District
Shawnee Conservation District
Town of Meeker
Town of Sparks

Size: 98,560 acres

Land Ownership: 1.6 percent Indian land - 25 percent tenant operated

Land Use: 16,510 acres cropland - 56,154 acres rangeland -
22,936 acres pastureland - 2,960 acres miscellaneous

Authorized for Planning: May 1963

Authorized for Operations: September 1965

Estimated Total Cost of Project:

a. Public Law 566 funds	\$4,232,131
b. Other	<u>1,635,800</u>
Total	\$5,867,931

Land Treatment:

- a. Percent of land adequately protected: 75
- b. Percent of planned measures applied: 85

Watershed Problems:

Floodwater and sediment damage to agricultural land
Need for municipal water and recreation for Town of Meeker

Project Purposes:

Flood prevention, recreation and municipal water

Structural Measures Planned:

- 1 multipurpose structure with recreation and municipal water
- 1 multipurpose structure with municipal water
- 42 floodwater retarding structures
- 8.8 miles channel improvement

Structural Measures Installed:

- 2 multipurpose structures
- 10 floodwater retarding structures

Easement Status:

- 9 additional sites are cleared for construction
- 6 floodwater retarding structures under construction
- 198 of 232 total easements secured

Acres Flood Plain Protected by Project: 7,208

Structures built to date prevented some flooding from four storms which occurred during the spring of 1973. Sparks started using water in 1972 and Meeker started using water in 1971. Meeker is working on recreational facilities on the municipal site. Sparks and Meeker sites are stocked with fish.

Rock Creek Watershed (Latimer and LeFlore Counties)

Sponsors: Talihina Conservation District
City of Talihina

Size: 37,997 acres

Land Ownership: 1,700 acres Bureau of Indian Affairs - 790 acres state -
240 acres city

Land Use: 20 percent pasture - 18.5 percent rangeland - 60 percent
woodland - 1.5 percent miscellaneous

Authorized for Planning: April 15, 1963

Authorized for Operations: September 10, 1965

Estimated Total Cost of Project:

a. Public Law 566 funds	\$1,224,703
b. Other	<u>513,137</u>
Total	\$1,737,840

Land Treatment:

- a. Percent of land adequately protected: 91
- b. Percent of planned measures applied: 76

Watershed Problems:

Floodwater and sediment damage to agricultural land
Residential and business areas in the City of Talihina

Project Purposes:

Flood prevention and recreation

Structural Measures Planned:

3 floodwater retarding structures with one dike and one waterway
as appurtenant structures to site No. 4 and modification of
Talihina municipal water supply structure to include floodwater
detention storage

Structural Measures Installed:

2 floodwater retarding structures and modification of Talihina
municipal water supply structure to include floodwater detention
storage

Easement Status:

Last site under construction, 80 percent complete

Acres of Flood Plain Protected by Project: 3,133 acres

Case Histories of Watershed Project Benefits:

The completed sites have had impact on flood reduction.
Site No. 1 provides fishing on a fee basis; owner has applied for
irrigation water. Site No. 2 (Lake Carl Albert) is leased to the
Oklahoma Department of Wildlife Conservation and is open to public
fishing. The Town of Talihina has developed a public picnic area
here also. Site No. 3 is stocked with channel catfish and owner
plans fee fishing. This site also provides some wildlife habitat.

Sallisaw Creek Watershed (Adair and Sequoyah Counties)

Sponsors: Sallisaw Creek Conservancy District
Sequoyah County Conservation District
Adair County Conservation District
Cherokee County Conservation District
City of Sallisaw
City of Stilwell
Stilwell Area Development Authority

Size: 185,280 acres

Land Ownership: 8 percent Indian land - 75 percent owner operated -
4 percent absentee owner - 4.67 percent state owned

Land Use: 5,558 acres cropland - 3,529 acres range - 61,256 acres
tame pasture - 61,256 acres pastured woodland -
6,000 acres miscellaneous

Authorized for Planning: September 11, 1959

Authorized for Operation: August 28, 1961

Estimated Total Cost of Project:

a. Public Law 566 funds	\$4,552,584
b. Other	<u>2,379,631</u>
Total	\$6,932,215

Land Treatment:

- a. Percent of land adequately protected: 49
- b. Percent of planned measures applied: 79

Watershed Problems:

Floodwater and sediment damage to agricultural land
Sediment deposits in Robert S. Kerr Reservoir and Navigation
channel
Need for municipal water for cities of Sallisaw and Stilwell

Project Purposes:

Flood Prevention and municipal water

Structural Measures Planned:

- 40 Floodwater retarding structures
- 2 Multipurpose structures with municipal water

Structural Measures Installed:

- 33 Floodwater retarding structures
- 2 Multipurpose structures with municipal water

Easement Status:

One additional site is cleared for construction and 71 of 119
remaining easements secured

Acres of Flood Plain Protected by Project: 8,146

Case Histories of Watershed Project Benefits:

Two periods of flooding occurred on Sallisaw Creek in October
1969 and October 1970, that would have resulted in approximately
\$236,740 damages had the structures not been in place.
With the number of structures in place, approximately 1,700 and
5,500 acres of flooding occurred with a total of \$25,000 in
damages resulting. The structures resulted in a reduction in
damages of approximately 90 percent. Private and public recreation
facilities have been established on several of the structures.
Four of the structures, in addition to the multipurpose structures,
are now being used for private and commercial water facilities.

Salt Creek Watershed (Pottawatomie & Seminole Counties)

Sponsors: Salt Creek Conservancy District
Konawa Conservation District
Shawnee Conservation District

Size: 152,000

Land Ownership: 75 percent owner-operated; 25 percent tenant operated

Land Use: 7,598 acres of cropland, 32,982 acres of pastureland,
68,820 acres of rangeland, and 39,285 acres of woodland
grazed

Authorized for Planning: April 1957

Authorized for Operation: March 1959

Estimated Total Cost of Project:

a. Public Law 566 funds	\$2,524,180
b. Other	<u>1,336,596</u>
Total	\$3,860,776

Land Treatment:

a. Percent of land adequately protected: 87

b. Percent of planned measures applied: 86

Watershed Problems:

Floodwater and sediment damage to agricultural land and damage to
county roads and bridges

Project Purpose:

Floodwater prevention

Structural Measures Planned:

49 floodwater retarding structures

Structural Measures Installed:

34 floodwater retarding structures

Easement Status:

9 easements of 65 have been secured

34 easement have expired in past years

Watershed loan has been approved upon completion of assessment
roll filing and approval by the court

Acres of Flood Plain Protected by Project: 22,261

Case Histories of Watershed Project Benefits:

A landowner who has benefited land below site 40, Salt Creek watershed said he has had no problem with flooding since the site was constructed. Before construction of the watershed structure, his land was flooded many times. One time in the 1940's, 10 inches of soil were lost down to the plow sole from a 10-acre bottom field which had just been plowed before a flood.

More rain fell during the first four months of this year than has been received in many years, and no flooding occurred.

Salt-Camp Creek Watershed (Lincoln and Creek Counties)

Sponsors: Creek County Conservation District
Lincoln County Conservation District
Salt-Camp Conservancy District No. 19
City of Stroud

Size: 73,030 acres

Authorized for Planning: August 15, 1961

Authorized for Operations: March 6, 1964

Estimated Total Cost of Project:

a. Public Law 566 funds	\$1,816,707
b. Other	<u>1,871,832</u>
Total	\$3,688,539

Land Treatment:

- a. Percent of land adequately protected: 52
- b. Percent of planned measures applied: 57

Watershed Problems:

Floodwater and sediment damage to agricultural land
Need for municipal water and recreation for City of Stroud
Flood damage in FY 1971 estimated at \$80,000; flooding in September 1970 from a 7½-inch rain covered 90 percent of entire flood plain about 3 feet deep in an area and 60 percent over another area. In May 1973, flooding occurred from a 5-inch rain which covered 80 percent of the flood plain and damage was estimated at \$40,000.

Project Purposes:

Flood prevention, recreation, municipal water, sediment and pollution control

Structural Measures Planned:

- 1 multipurpose structure with recreation and municipal water
- 24 floodwater retarding structures

Structural Measures Installed:

- 1 multipurpose structure

Easement Status:

182 easements are required on remaining 24 structures

Acres Flood Plain Protected by Project: 4,643

Case Histories of Watershed Project Benefits:

One multipurpose structure is providing protection. The multipurpose structure in place protected a 2-mile area of flood plain with no flooding. The multipurpose site started providing municipal water to Stroud in June 1971 and two housing projects have been built on the basis of good, adequate water and one manufacturing firm has enlarged.

Sandy Creek Watershed: (Pontotoc and Garvin Counties)

Sponsors: Pontotoc County Conservation District
Garvin Conservation District
Sandy Creek Water and Soil Conservancy District

Size: 147,243 acres

Authorized for Planning: April 15, 1955

Authorized for Operations: August 26, 1957

Estimated Total Cost of Project:

a. Public Law 566 funds	\$1,549,139
b. Other	<u>1,717,251</u>
Total	\$3,266,390

Land Treatment:

- a. Percent of land adequately protected: 66
- b. Percent of planned measures applied: 71

Watershed Problems:

Floodwater and sediment damage to agricultural land

Project Purposes:

Flood prevention

Structural Measures Planned:

33 floodwater retarding structures

Structural Measures Installed:

25 flood retarding structures

Easement Status:

1 additional site is cleared for construction and over 90 percent of total easements have been secured

Acres of Flood Plain Protected by Project: 12,653

Case Histories of Watershed Project Benefits:

In October 1970 a major storm occurred in the watershed--12-15 inches of rain fell in a 6-hour period. Structures designed for a 100-year frequency rain did not discharge through emergency spillway; however, those structures designed for 90-year frequency did discharge through the emergency spillway. The flood plain was flooded but only minor damage occurred. The local people realized what a disastrous flood would have occurred if it had not been for the 25 flood control structures. Site 4 has been developed into a recreational area, furnishing swimming, fishing and picnic tables and horse back riding.

Squaw Creek Watershed (Comanche County)

Sponsors: City of Lawton
Comanche County Board of Commissioners
Comanche County Conservation District

Size: 7,940 acres

Land Ownership: 60 percent Indian land - 70 percent tenant operated

Land Use: 1,210 acres cropland - 820 acres grassland - 5,440 acres
in City of Lawton

Authorized for Planning: April 23, 1962

Authorized for Operations: December 10, 1962

Estimated Total Cost of Project:

a. Federal	\$243,546
b. Other	61,480
Total	\$305,026

Land Treatment:

a. Percent of land adequately protected: 75
b. Percent of planned measures applied: 78

Watershed Problems:

Floodwater and sediment damage to agricultural land, roads and bridges

Project Purpose:

Flood prevention

Structural Measures Planned:

4.8 miles of channel improvement

Structural Measures Installed:

4.8 miles of channel improvement

Easement Status:

All easements (10) have been obtained

Acres Flood Plain Protected by Project: 1,917

Case Histories of Watershed Project Benefits:

Flooding has not occurred on land adjacent to improved channel while flooding occurred in the City of Lawton where the channel was not improved. Four test sections are being studied to determine their effectiveness on stabilizing channel banks.

Stillwater Creek Watershed (Payne, Noble and Logan Counties)

Sponsors: Conservancy District No. 16 in Payne and Noble Counties
Payne County Conservation District
Noble County Conservation District
Logan County Conservation District
City of Stillwater

Size: 177,216 acres

Land Ownership: 20 percent tenant operated

Land Use: 79,747 acres open rangeland - 30,128 pastured woodland
40,760 cropland - 3,544 pasture (former cropland) -
23,037 acres urban

Authorized for Planning: September 26, 1960

Authorized for Operations: October 11, 1963

Estimated Total Cost of Project:

a. Public Law 566 funds	\$3,251,961
b. Other	<u>3,753,446</u>
Total	\$7,005,407

Land Treatment:

- a. Percent of land adequately protected: 81
- b. Percent of planned measures applied: 84

Watershed Problems:

Floodwater and sediment damage to urban areas, agricultural land,
flood plain scour and erosion

Need for municipal water and recreation for City of Stillwater

Need for water supply and irrigation water supply

Project Purposes:

Flood prevention, municipal water, irrigation and recreation

Structural Measures Planned:

- 47 floodwater retarding structures
- 5 multipurpose structures with irrigation water supply
- 1 multipurpose structure with municipal water supply and recreation
- 1 multipurpose structure with municipal water supply
- 6.3 miles stream channel improvement

Structural Measures Installed:

- 2 multipurpose structures
- 20 floodwater retarding structures
- Bids have been let on sites 11 and 52; construction will start during fiscal year 1974

Easement Status:

Site 34 is cleared for construction and site 35 has one easement remaining to be cleared. Of those sites yet to be constructed, 30 of 165 total easements have been secured and 5 of 52 total rights-of-ways have been secured. Conservancy District has obtained a FHA loan to secure easements and rights-of-ways.

Acres Flood Plain Protected by Project: 10,553

Case Histories of Watershed Project Benefits:

Site 40M has been completed and will provide municipal water supply. It currently has over 8,000 acre feet of water. Recreation facilities that have been constructed during the past fiscal year include 2 picnic shelters, 20 picnic tables and trash receptacles. Access

Stillwater Creek Watershed (Payne, Noble and Logan Counties) (cont.)

roads and two boat ramps have been constructed in prior years. The lake will be opened for public fishing in the fall of 1973. Recreation area is opened to the public.

Tri-County Turkey Creek Watershed (Jackson, Harmon and Greer Counties)

Sponsors: Jackson County Conservation District
Harmon County Conservation District
Greer County Conservation District
Tri-County Turkey Creek Conservancy District

Size: 196,400 acres

Land Ownership: 100 percent privately-owned - 40 percent tenant operated

Land Use: Cropland -120,000 acres; rangeland - 59,300 acres; formerly cultivated, 15,900 acres; miscellaneous, 1,200 acres

Authorized for Planning: March 13, 1961

Authorized for Operations: August 29, 1963

Estimated Total Cost of Project:

a. Public Law 566 funds	\$2,997,840
b. Other	<u>1,946,007</u>
Total	\$4,943,847

Land Treatment:

- a. Percent of land adequately protected: 56
- b. Percent of planned measures applied: 74

Watershed Problems:

Floodwater and sediment damage to agricultural land. Need for recreational area in Gould and Duke communities

Project Purposes:

Flood Prevention - recharge underground water supply in irrigated areas

Structural Measures Planned:

42 floodwater retarding structures (originally 41 - site 5 now 5A and 5B)

0 miles of channel improvement (originally 13.2 miles and revised)

Structural Measures Installed:

27 floodwater retarding structures completed

Wildlife habitat plantings made on sites 1A and 14A. Shoreline planting to reduce wave action on site 15. Sites 1A and 6 vegetated

Easement Status:

Total easements on impounding structures - 140

Total needed - 33 (in addition to the 140)

Acres of Flood Plain Protected by Project: 12,328

Case Histories of Watershed Project Benefits:

Damage to agricultural land, crops and state and county roads would have tripled if the 11 constructed sites had not been in place.

Recreation benefits numerous. Good fishing near the town of Duke which has no public recreation area. Site 3 provides recreational benefits, fishing and boating. Site 7 didn't provide irrigation the past year due to small runoff, but the lake is full and farmer plans on using the water to irrigate 70 acres this summer. All structures functioned properly this past year. Water flowed through 8 of the 12 completed structures this spring. No water flowed through the emergency spillway. Benefits received from underground recharge. Site 10 has especially contributed to the underground water since it has filled to one foot above principal spillway on two occasions and completely drained through a gyp sink. In Jackson County all sites are in gyp formation areas.

Uncle John Creek Watershed (Canadian and Kingfisher Counties)

Sponsors: East Canadian County Conservation District
Kingfisher County Conservation District

Size: 99,584 acres

Land Ownership: 3.87 percent Indian land - 1.3 percent Federal land -
1.0 percent school land

Land Use: 55 percent cropland - 35 percent rangeland - 5 percent
pasture - 5 percent miscellaneous

Authorized for Planning: April 13, 1964

Authorized for Operations: July 14, 1965

Estimated Total Cost of Project:

a. Public Law 566 funds	\$1,822,313
b. Other	936,706
Total	\$2,759,019

Land Treatment:

- a. Percent of land adequately protected: 90
- b. Percent of planned measures applied: 85

Watershed Problems:

Floodwater and sediment damage to agricultural lands, county roads, bridges and city of Kingfisher

Project Purposes:

Flood prevention

Structural Measures Planned:

14 floodwater retarding structures

Structural Measures Installed:

8 floodwater retarding structures

Easement Status:

Four sites are cleared for construction. One land rights easement has been secured on the two sites yet to be cleared; 79 of the 87 land rights easements needed have been secured

Acres Flood Plain Protected by Project: 5,344

Case Histories of Watershed Project Benefits:

This project, when complete, will provide flood protection to 5,344 acres of highly productive bottom land as well as many county and state highway bridges and roads. Major benefits will be received by private and public properties in the city of Kingfisher. Some of the completed structures are now open to fishing on the honor box system, with a charge of \$1 per person per day. They are providing recreation to as many as 75 people per day on weekends and during holidays. The lakes are also used for skiing, boating and picnic areas.

Upper Bayou Creek Watershed (Carter and Love Counties)

Sponsors: Arbuckle Conservation District
Love County Conservation District

Size: 119,680 acres

Authorized for Planning: June 26, 1961

Authorized for Operations: June 17, 1964

Project Reactivated: March 1971

Estimated Total Cost of Project:

a. Public Law 566 funds	\$2,383,169
b. Other	<u>1,499,361</u>
Total	\$3,882,530

Land Treatment:

a. Percent of land adequately protected: 65

b. Percent of planned measures applied: 75

Watershed Problems:

Floodwater and sediment damage, erosion damage, need for
municipal and recreation water for the City of Healdton

Project Purposes:

Flood prevention

Recreation

Municipal water

Structural Measures Planned:

1 multipurpose structure with recreation and municipal water

21 floodwater retarding structures

Structural Measures Installed:

None

Easement Status:

72 of a total of 169 easements obtained

Acres Flood Plain Protected by Project: 9,178

Case Histories of Watershed Project Benefits:

No structures installed to date.

Upper Black Bear Creek Watershed (Noble, Garfield and Pawnee Counties)

Sponsors: Noble County Conservation District
Garfield County Conservation District
Pawnee County Conservation District
Black Bear Conservancy District
City of Perry

Size: 241,546 acres

Land Ownership: 2 percent Indian land - 5 percent school land -
93 percent deeded land

Land Use: 52 percent cropland - 43 percent pasture and range -
5 percent other

Authorized for Planning: June 6, 1958

Authorized for Operations: August 29, 1960

Estimated Total Cost of Project:

a. Public Law 566 funds	\$2,672,846
b. Other	<u>1,851,709</u>
Total	\$4,524,555

Land Treatment:

- a. Percent of land adequately protected: 80
- b. Percent of planned measures applied: 76

Watershed Problems:

Sediment and floodwater damages to agricultural lands,
county roads and bridges

Need for municipal water for towns of Perry and Lucien

Project Purposes:

Flood prevention - municipal water

Structural Measures Planned:

- 1 multipurpose structure with municipal water
- 75 floodwater retarding structures

Structural Measures Installed:

- 1 multipurpose structure with municipal water
- 57 floodwater retarding structures; 5 under construction

Easement Status:

Three additional sites are cleared for construction. Of those sites yet to be constructed, 40 of 93 easements have been secured and 3 of 25 rights-of-way secured

Acres Flood Plain Protected by Project: 14,309

Case Histories of Watershed Project Benefits:

There was minor flooding on at least two occasions. We had an unusually wet winter and spring. We believe that there would have been major floods without the completed structures. No emergency spillways functioned. The Perry City Lake (site 62) is essentially full and is an excellent water supply for the town. Site 48 is still used as a water supply for Lucien and for a rural water district. Sponsors planted common reedgrass and indigo bush (both from Plant Materials) to try to reduce wave action erosion on site 60. Fertilizer was applied on site 58 and grazing was deferred seasonally to restore vigor of the grass.

Upper Clear Boggy Watershed (Pontotoc, Coal and Johnston Counties)

Sponsors: Pontotoc County Conservation District
Coal County Conservation District
Johnston County Conservation District
Upper Clear Boggy Conservancy District

Size: 162,240 acres

Authorized for Planning: April 30, 1957

Authorized for Operations: September 2, 1959

Estimated Total Cost of Project:

a. Public Law 566 funds	\$2,349,482
b. Other	<u>2,216,572</u>
Total	\$4,566,054

Land Treatment:

- a. Percent of land adequately protected: 75
- b. Percent of planned measures applied: 72

Watershed Problems:

Upper Clear Boggy and its tributaries are subject to severe flooding; has occurred as often as 5 times in some years

Project Purposes:

Flood prevention

Structural Measures Planned:

54 floodwater retarding structures

Structural Measures Installed:

45 floodwater retarding structures

Easement Status:

Easements and rights-of-way valued at \$171,640 have been obtained from 216 landowners

Acres of Flood Plain Protected by Project: 12,403

Case Histories of Watershed Project Benefits:

In October 1970 a 50-year frequency rain occurred in the watershed which caused flooding in the bottom lands and caused some structures to discharge through the emergency spillway. The sponsors and landowners think when all structures and measures are in place, flooding of the bottom lands will be a minor problem. A 9-hole golf course has been developed around site 40, along with a housing project. Site 34 has been developed into a major recreation area. The site is open for swimming, boating, and fishing. The owner also uses the water to irrigate his nursery stock.

Upper Elk Creek Watershed (Beckham, Kiowa and Washita Counties)

Sponsors: North Fork of Red River Conservation District
Kiowa County Conservation District
Town of Elk City
Town of Sentinel

Size: 248,240 acres

Authorized for Planning: August 9, 1963

Authorized for Operations: September 10, 1965

Estimated Total Cost for Project:

a. Public Law 566 funds	\$4,660,291
b. Other	<u>3,100,431</u>
Total	\$7,760,722

Land Treatment:

- a. Percent of land adequately protected: 85
- b. Percent of planned measures applied: 84

Watershed Problems:

Floodwater and sediment damage to agricultural land
Need for municipal recreation for the towns of Elk City
and Sentinel

Project Purposes:

Floodwater prevention
Recreation

Structural Measures Planned:

2 multipurpose structures for recreation
45 floodwater retarding structures
9.7 miles of channel improvement

Structural Measures Installed:

20 floodwater retarding structures
1 multipurpose structure

Easement Status:

9 additional sites have been cleared for construction and 131 of
170 easements have been obtained
8 sites need only one easement each to be cleared
6 sites need only two easements each to be cleared

Acres Flood Plain Protected by Project: 25,613

Case Histories of Watershed Project Benefits:

No flooding occurred below completed structures following heavy
rainfalls. Twenty acres of alfalfa were watered twice last year
from site 32.

Upper Red Rock Creek Watershed (Garfield and Noble Counties)

Sponsors: Garfield County Conservation District
Noble County Conservation District
Red Rock Conservancy District

Size: 197,376 acres

Land Ownership: 5 percent school land - 95 percent deeded land

Land Use: 66 percent cropland - 30 percent rangeland and pasture -
4 percent other

Authorized for Planning: June 6, 1958

Authorized for Operations: August 17, 1961

Estimated Total Cost of Project:

a. Public Law 566 funds	\$1,985,844
b. Other	<u>1,837,455</u>
Total	\$3,823,299

Land Treatment:

- a. Percent of land adequately protected: 80
- b. Percent of planned measures applied: 76

Watershed Problems:

Sediment and floodwater damage to agricultural and non-agricultural land, and to roads and bridges

Project Purposes:

Flood prevention

Structural Measures Planned:

56 floodwater retarding structures

Structural Measures Installed:

34 floodwater retarding structures

Easement Status:

1 site is cleared for construction. On remaining sites to be constructed, 27 of 119 easements have been secured and 3 of 44 rights-of-way have been secured

Acres Flood Plain Protected by Project: 14,911

Case Histories of Watershed Project Benefits:

Flooding occurred at least twice during the report year following unusually heavy rainfall last winter and spring. Flooding would no doubt have been worse without completed structures. No emergency spillways functioned. Sponsors replanted willows on site 6 which were lost due to dry weather last year. The landowner and Soil Conservation Service have agreed on some tree and bush plantings near site 20 to improve wildlife habitat.

Waterfall-Gilford Watershed (McCurtain County)

Sponsors: Little River Conservation District
Waterfall-Gilford Flood Control and Soil Conservancy District

Size: 43,410 acres

Land Ownership: 97 percent privately owned - 2 percent U.S. Forest
Service - 1 percent Indian land - 7 percent tenant
operated

Land Use: 22 percent cropland - 68 percent pasture - 5 percent woodland -
5 percent roads, lakes, farmstead, etc.

Authorized for Planning: March 13, 1961

Authorized for Operations: August 21, 1963

Estimated Total Cost of Project:

a. Federal	\$1,178,066
b. Other	<u>1,431,292</u>
Total	\$2,609,358

Land Treatment:

- a. Percent of land adequately protected: 60
- b. Percent of planned measures applied: 60

Watershed Problems:

Floodwater and sediment damage to agricultural land

Erosion damage

Drainage

- a. Outlets are needed for on-farm open drainage systems --
excessive runoff delays plant development and delays
harvest
- b. Stagnant lakes and pools provide breeding places for
mosquitoes and other vector insects

Project Purposes:

Flood prevention

Drainage

Erosion control

Structural Measures Planned:

12 floodwater retarding structures

68 miles of channel improvement

Structural Measures Installed:

6 floodwater retarding structures

Easement Status:

3 additional sites are cleared for construction and 203 of 217
easements secured. Six easements have expired due to lag in
construction progress

Acres Flood Plain Protected by Project: 28,000

Case Histories of Watershed Project Benefits:

All structures have performed as planned. Flooding occurred during
October 1972. Existing structures reduced flooding by an estimated
20-25 percent. All sites are being used for recreational purposes
including hunting, fishing, swimming, boating and picnicking.

PROJECTS APPROVED FOR OPERATIONS (INACTIVE)
PL-566

Bixby Conservancy District No. 25 Watershed (Tulsa County)

Sponsors: Arkansas-Verdigris Conservation District
Bixby Conservancy District No. 25

Size: 3,790 acres

Authorized for Planning: August 9, 1963

Authorized for Operations: August 27, 1964

Structural Measures Planned:

8.6 miles channel improvement

Structural Measures Installed:

None

Became Inactive: August 27, 1966

Cache Creek Watershed (LeFlore County)

Sponsors: LeFlore County Conservation District
Cache Bottom Conservancy District

Size: 12,535 acres

Authorized for Planning: April 25, 1960

Authorized for Operations: January 19, 1961

Structural Measures Planned:

19.6 miles channel improvement

Structural Measures Installed:

None

Became Inactive: June 25, 1963

Dumpling-Beaver Creeks Watershed (Pushmataha and Choctaw Counties)

Sponsors: Pushmataha Conservation District
Kiamichi Conservation District
Dumpling-Beaver Creeks Conservancy District
Town of Antlers

Size: 39,674

Authorized for Planning: June 29, 1964

Authorized Operations: April 1, 1969

Structural Measures Planned:

9 floodwater retarding structures

1 multipurpose structure with recreation, municipal water and
rural water

8.49 miles channel improvement

Structural Measures Installed:

None

Became Inactive: February 28, 1972

Haikey Creek Watershed (Tulsa County)

Sponsors: Arkansas-Verdigris Soil Conservation District
Haikey Creek Conservancy District

Size: 24,872 acres

Authorized for Planning: June 6, 1958

Authorized for Operations: July 31, 1961

Structural Measures Planned:

8 floodwater retarding structures

3.7 miles channel improvement

Structural Measures Installed:

None

Became Inactive: June 25, 1963

Squirrel Creek Watershed (Pottawatomie County)

Sponsors: Squirrel Creek Conservancy District
Shawnee Conservation District

Size: 16,128 acres

Authorized for Planning: March 12, 1962

Authorized for Operations: September 14, 1964

Structural Measures Planned:

7 floodwater retarding structures

3.4 miles channel improvement

Structural Measures Installed:

None

Became Inactive: September 22, 1970

Upper Blue River Watershed (Atoka, Bryan, Johnston, Murray and Pontotoc Counties)

Sponsors: Pontotoc County Conservation District
Johnston County Conservation District
Bryan County Conservation District
Atoka County Conservation District
Murray County Conservation District

Size: 203,100 acres

Authorized for Planning: April 25, 1960

Authorized for Operations: October 2, 1962

Structural Measures Planned:

74 floodwater retarding structures

Structural Measures Installed:

None

Became Inactive: September 30, 1968

Wagon Creek Watershed (Alfalfa and Grant Counties)

Sponsors: Wagon Creek Conservancy District
Alfalfa County Conservation District
Grant County Conservation District

Size: 36,900

Authorized for Planning: September 11, 1959

Authorized for Operations: June 8, 1962

Structural Measures Planned:

12 floodwater retarding structures

10.6 miles channel improvement

Structural Measures Installed:

None

Became Inactive: August 27, 1966

PROJECTS AUTHORIZED FOR PLANNING ASSISTANCE
PL-566

Big Beaver Creek Watershed (Cotton, Comanche, Stephens and
Grady Counties)

Sponsors: Cotton County Conservation District
Comanche County Conservation District
Stephens County Conservation District

Size: 177,000 acres

Authorized for Planning: February 12, 1968

Status: Planning is 65 percent complete

Kickapoo Nations Watershed (Lincoln and Oklahoma Counties)

Sponsors: Lincoln County Conservation District
Oklahoma County Conservation District
Kickapoo Nations Conservancy District
City of Chandler
Town of Wellston

Size: 165,300 acres

Authorized for Planning: February 24, 1969

Status: Planning is 73 percent complete

Little Beaver Creek Watershed (Stephens, Grady, Cotton and
Comanche Counties)

Sponsors: Stephens County Conservation District
Grady County Conservation District
Cotton County Conservation District
Comanche County Conservation District

Size: 124,800 acres

Authorized for Planning: July 22, 1969

Status: Planning has been suspended

McKinney-Buzzard Creek Watershed (McCurtain County)

Sponsors: Valliant Conservation District
McKinney-Buzzard Conservancy District

Size: 13,865 acres

Authorized for Planning: September 9, 1968

Status: Planning is 72 percent complete

Pott-Sem-Turkey Creek Watershed (Seminole and Pottawatomie Counties)

Sponsors: Seminole County Conservation District
Shawnee Conservation District

Size: 34,560 acres

Authorized for Planning: April 7, 1969

Status: Planning is 65 percent complete

Sans Bois Creek Watershed (Haskell, Latimer, and Pittsburg Counties)

Sponsors: Haskell Conservation District
Latimer Conservation District
Pittsburg County Conservation District

Size: 205,000 acres

Authorized for Planning: July 27, 1970

Status: Planning is 14 percent complete

Upper Muddy Boggy Creek Watershed (Pontotoc, Coal, Hughes and
Pittsburg Counties)

Sponsors: Coal County Conservation District
Hughes County Conservation District
Pontotoc County Conservation District
Pittsburg County Conservation District

Size: 198,000 acres

Authorized for Planning: December 18, 1967

Status: Planning is 96 percent complete

Norwood Creek Watershed (McCurtain County)

Sponsors: Little River Soil Conservation District

Size: 41,600 acres

Authorized for Planning: November 4, 1968

Status: Planning has been suspended

Upper Little River Watershed (Cleveland County)

Sponsors: Cleveland County Conservation District
Upper Little River Conservancy District

Size: 77,500 acres

Authorized for Planning: November 22, 1965

Status: Planning has been terminated

APPLICATIONS APPROVED BY THE
OKLAHOMA CONSERVATION COMMISSION
PL-566

Atwood-Calvin Tributaries (Hughes County)

Sponsors: Hughes County Conservation District

Size: 72,000 acres

Birds Nest Creek Watershed (Kay and Noble Counties)

Sponsors: Noble County Conservation District

Western Kay County Conservation District

Size: 24,500 acres

Bitter Creek Watershed (Kay County)

Sponsors: Western Kay County Conservation District

Size: 63,320 (in Oklahoma)

Black Fork Creek Watershed (LeFlore County)

Sponsors: LeFlore County Conservation District

Size: 50,160 acres (in Oklahoma)

Bois D'Arc-Cowskin Creeks Watershed (Kay County)

Sponsors: Western Kay County Conservation District

Arkansas River Kay County Conservation District

Size: 80,000 acres

Brazil Creek Watershed (Latimer, LeFlore and Haskell Counties)

Sponsors: LeFlore County Conservation District

Latimer County Conservation District

Haskell County Conservation District

Size: 152,100 acres

Buffalo Creek Watershed (Latimer and Pushmataha Counties)

Sponsors: Talihina Conservation District
Latimer County Conservation District
Size: 49,000 acres

Campbell Creek Watershed (Kingfisher County)

Sponsors: Kingfisher County Conservation District
Size: 41,420 acres

Central Little River Watershed (Cleveland, Pottawatomie and Seminole Counties)

Sponsors: Shawnee Conservation District
Konawa Conservation District
Cleveland County Conservation District
Size: 220,168 acres

Coal Creek Watershed (Pittsburg and Hughes Counties)

Sponsors: Hughes County Conservation District
Pittsburg County Conservation District
Size: 132,000 acres

Combined Creeks Watershed (LeFlore County)

Sponsors: LeFlore County Conservation District
Size: 98,048 acres (in Oklahoma)

Coody Creek Watershed (Muskogee County)

Sponsors: Muskogee County Conservation District
Size: 33,330 acres

Cottonwood Canyon Watershed (Alfalfa County)

Sponsors: Alfalfa County Conservation District

Size: 36,000 acres

Dirty Creek Watershed (Muskogee and McIntosh Counties)

Sponsors: Muskogee County Conservation District

Checotah Conservation District

Size: 215,000 acres

Duck and Snake Creeks Watershed (Okmulgee, Tulsa and Creek Counties)

Sponsors: Okmulgee County Conservation District

Creek County Conservation District

Tulsa County Conservation District

Size: 115,540 acres

Georges Fork Creek Watershed (McIntosh and Muskogee Counties)

Sponsors: Checotah Conservation District

Muskogee County Conservation District

Size: 38,920 acres

Holston-Reichert-Conser Creeks Watershed (LeFlore County)

Sponsors: LeFlore County Conservation District

Size: 97,792 acres

Hominy Creek Watershed (Osage and Tulsa Counties)

Sponsors: Osage County Conservation District

Tulsa County Conservation District

Size: 248,636 acres

Houston Creek Watershed (Woods County)

Sponsors: Woods County Conservation District

Size: 18,000 acres

Hoyle Creek Watershed (Major County)

Sponsors: Major County Conservation District

Size: 36,768 acres

J. V. Flats (Revised) (Dewey County)

Sponsors: Dewey County Conservation District

Size: 4,870 acres

Kingfisher Creek Watershed (Kingfisher, Canadian and Blaine Counties)

Sponsors: Kingfisher County Conservation District
Central North Canadian River Conservation District
Blaine County Conservation District
East Canadian County Conservation District
Cimarron Valley Conservation District

Size: 215,000 acres

Lower Beaver Creek Watershed (Jefferson, Cotton and Stephens Counties)

Sponsors: Jefferson County Conservation District
Stephens County Conservation District
Cotton County Conservation District

Size: 124,900 acres

Lower Big Cabin Creek Watershed (Ottawa, Craig, Mayes and
Delaware Counties)

Sponsors: Craig County Conservation District
Size: 146,944 acres

Lower Bird Creek Watershed (Osage, Tulsa, Rogers and
Washington Counties)

Sponsors: Osage County Conservation District
Tulsa County Conservation District
Size: 244,050 acres

Lower Blue River Watershed (Bryan, Atoka and Johnston Counties)

Sponsors: Bryan Conservation District
City of Durant
Size: 236,032 acres

Lower Caney River Watershed (Osage, Washington, Rogers and
Tulsa Counties)

Sponsors: Caney Valley Conservation District
Rogers County Conservation District
Osage County Conservation District
Tulsa County Conservation District
Oklahoma Conservancy District No. 26
Size: 152,940 acres

Lower Skeleton Creek Watershed (Logan, Kingfisher and Garfield
Counties)

Sponsors: Garfield County Conservation District
Logan County Conservation District
Size: 154,200 acres

Lukfata Creek Watershed (McCurtain County)

Sponsors: Little River Conservation District

Size: 34,458 acres

Middle Muddy Boggy Creek Watershed (Coal, Pittsburg and Atoka Counties)

Sponsors: Coal County Conservation District

Atoka County Conservation District

Pittsburg County Conservation District

Size: 149,000 acres

Perkins Laterals (Logan, Lincoln and Payne Counties)

Sponsors: Payne County Conservation District

Lincoln County Conservation District

Logan County Conservation District

Size: 61,800 acres

Robinson Creek Watershed (Lincoln County)

Sponsors: Lincoln County Conservation District

Size: 40,320 acres

Sand Creek Watershed (Major County)

Sponsors: Major County Conservation District

Size: 35,000 acres

Sand-Hogshooter Creeks Watershed (Nowata, Osage and
Washington Counties)

Sponsors: Osage County Conservation District
Caney Valley Conservation District
Nowata County Conservation District
Oklahoma Conservancy District No. 26

Size: 242,560 acres

Six Mile Creek Watershed (Canadian County)

Sponsors: Central North Canadian River Conservation District

Size: 20,160 acres

Turkey Creek Watershed (Garfield, Alfalfa, Major and
Kingfisher Counties)

Sponsors: Garfield County Conservation District
Alfalfa County Conservation District
Major County Conservation District
Kingfisher County Conservation District

Size: 239,000 acres

Turkey-Boggy Creek Watershed (Woods County)

Sponsors: City of Alva
Woods County Conservation District
East Woods County Conservation District

Size: 37,900 acres

Upper Big Cabin Creek Watershed (Craig and Mayes Counties)

Sponsors: Craig County Conservation District

Size: 143,144 acres

Upper Bird Creek Watershed (Osage, Tulsa, Rogers and Washington
Counties)

Sponsors: Tulsa County Conservation District
Osage County Conservation District

Size: 248,790 acres

Upper Skeleton Creek Watershed (Kingfisher, Garfield and
Logan Counties)

Sponsors: Kingfisher County Conservation District
Logan County Conservation District
Garfield County Conservation District

Size: 247,800 acres

Walnut Bayou Watershed (McCurtain County)

Sponsors: Little River Conservation District

Size: 42,750 acres

Whiskey Creek Watershed (Cotton and Jefferson Counties)

Sponsors: Cotton County Conservation District
Jefferson County Conservation District

Size: 45,240 acres

FLOOD PREVENTION - WASHITA RIVER

WASHITA RIVER

The Project in Brief

The Washita River watershed was authorized under the Flood Control Act of 1944. The problems on the 64 tributaries include floodwater and sediment damages on 265,000 acres of bottom land, and water supply and recreation needs throughout the basin. There are 112,000 acres along the mainstem of the Washita needing protection. Local sponsors of each subwatershed are soil and water conservation districts, watershed associations, and city councils with overall guidance provided by the Washita Flood Prevention Council. More than 85 percent of the land is privately owned, and tax-free restricted Indian land amounts to 9 percent. There are 30,392 acres in the Black Kettle National Grassland which is administered by the Forest Service. Work plans have been completed on 56 of the 64 subwatersheds and construction is underway on 53 of them.

Progress in Land Treatment

Basic plans have been developed on approximately 84 percent of the privately owned land on the Washita River watershed, and the Bureau of Indian Affairs has agreements for proper use and treatment of restricted Indian lands. Emphasis continues on providing basic farm plans for all land within a treated watershed. Good progress has been made in application of land treatment measures which will protect the watershed areas and reduce sediment yields. Approximately 62 percent of the land is considered "adequately protected". Plans are being completed to use flood prevention funds for cost sharing in the installation of critical area treatment.

Progress in Structural Measures

At the end of 23 years of construction the following structural measures have been completed: 964 floodwater retarding structures; 19 multipurpose structures including municipal water, recreation, fish and wildlife; 72 grade stabilization structures; treatment of 10 critical areas; 44 drop inlets; 46.6 miles of channel improvement; 27 gully plugs; 18 miles floodwater diversion; seven recreation developments and one fish and wildlife development. Thirty-eight of the planned and constructed single-purpose structures are in Texas. The estimated cost of planned measures is \$94,292,034 of which \$11,946,666 is local and \$82,345,368 is federal (table 1).

Flood Damage Reduction

During spring storms of 1973 which produced above average runoff throughout the Washita River watershed, there was little to no flooding on those subwatersheds on which structural measures are substantially complete. The Washita River with exception of low lying area remained within its banks during this same period. It was estimated that structural measures installed during the spring storm prevented damages in the amount of \$2,200,000.

Sediment Reduction

On the basis of sediment surveys by the Corps of Engineers on Lake Texoma, the amount of sediment being delivered to the mouth of the Washita River has reduced from 1050 acre/month during the period of 1948-1954 to 205 acre/month during the period of 1962-1969.

Municipal Water Supply

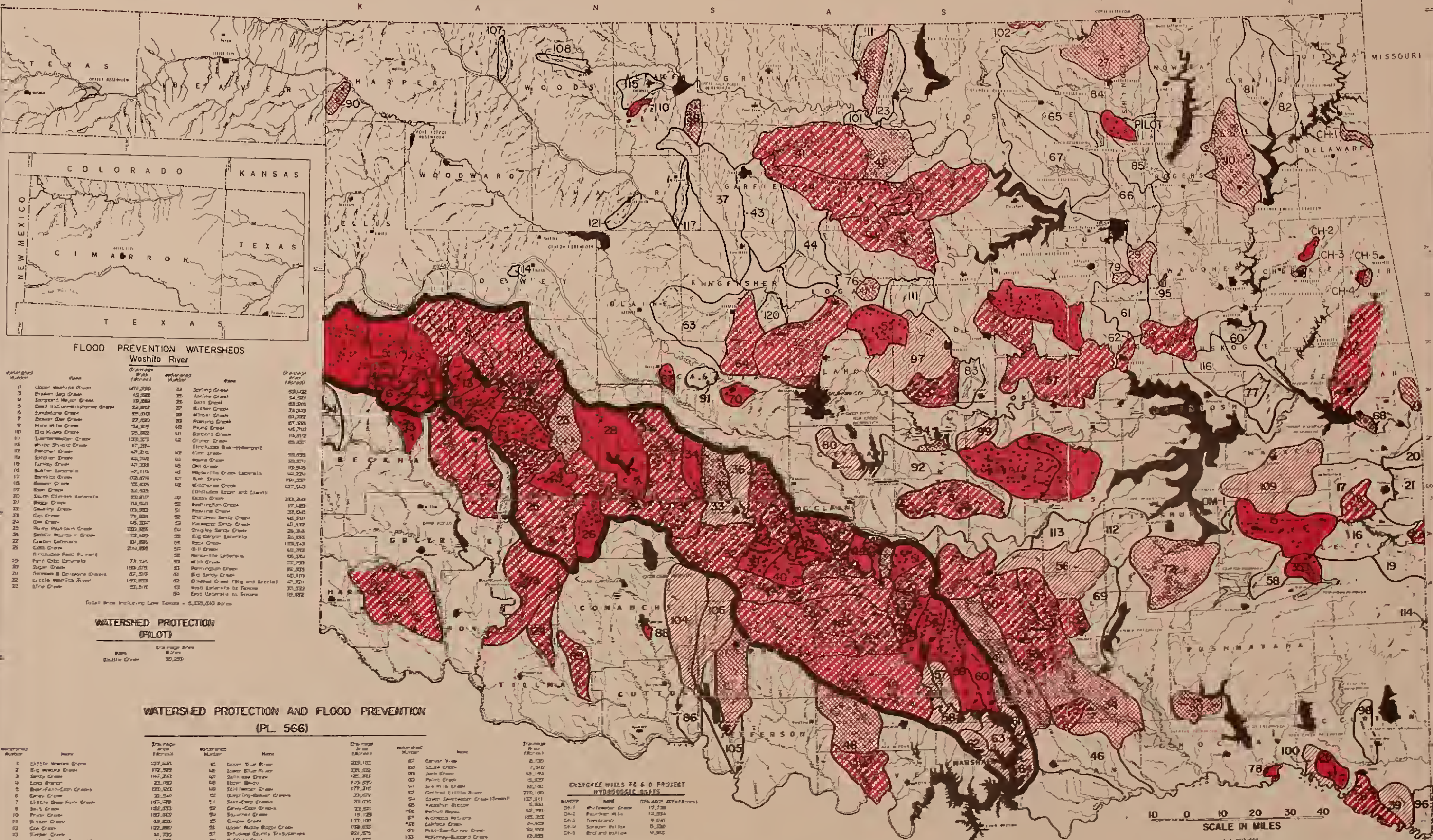
Multipurpose structures in the Washita River project are furnishing municipal water to urban and rural communities with a combined population of 70,000 people. The abundance of municipal and industrial water has helped attract new industries to several of the towns.

Finn Creek multipurpose structure No. 34, the water supply pool filled this year and will furnish an adequate supply of water for the city of Maysville and surrounding rural area.

Wildhorse multipurpose structure No. 107, which furnishes municipal water for Elmore City, began furnishing water to a rural water district this year.

Recreation

Recreational use of multipurpose projects in the Washita exceeds that anticipated. A recent survey by Department of Recreation and Parks Administration and Extension Department of the University of Missouri of Lake Fuqua, site 39, Wildhorse Creek watershed, reports 97,088 recreation days as compared to an estimate of 55,000 days when the work plan was prepared. The report also shows \$403,886 annual benefits as compared to \$82,500 in the work plan.



FLOOD PREVENTION WATERSHEDS Washita River

Watershed Number	Name	Drainage Area (Acres)	Watershed Number	Name	Drainage Area (Acres)
1	Upper Washita River	479,389	34	Spring Creek	45,402
2	Broken Bow Creek	10,523	35	Antine Creek	24,521
3	Sagehen Creek	19,284	36	Sage Creek	48,209
4	Good Hope Creek	22,882	37	Wilder Creek	23,249
5	Sandstone Creek	27,520	38	Rolling Creek	27,520
6	Lower Washita River	25,392	39	Rolling Creek	46,702
7	Big Washita Creek	25,392	40	Rolling Creek	14,912
8	Lower Washita River	103,372	41	Rolling Creek	65,357
9	White River	17,284	42	Rolling Creek	20,200
10	White River	47,216	43	Rolling Creek	19,216
11	White River	47,216	44	Rolling Creek	19,216
12	White River	47,216	45	Rolling Creek	19,216
13	White River	47,216	46	Rolling Creek	19,216
14	White River	47,216	47	Rolling Creek	19,216
15	White River	47,216	48	Rolling Creek	19,216
16	White River	47,216	49	Rolling Creek	19,216
17	White River	47,216	50	Rolling Creek	19,216
18	White River	47,216	51	Rolling Creek	19,216
19	White River	47,216	52	Rolling Creek	19,216
20	White River	47,216	53	Rolling Creek	19,216
21	White River	47,216	54	Rolling Creek	19,216
22	White River	47,216	55	Rolling Creek	19,216
23	White River	47,216	56	Rolling Creek	19,216
24	White River	47,216	57	Rolling Creek	19,216
25	White River	47,216	58	Rolling Creek	19,216
26	White River	47,216	59	Rolling Creek	19,216
27	White River	47,216	60	Rolling Creek	19,216
28	White River	47,216	61	Rolling Creek	19,216
29	White River	47,216	62	Rolling Creek	19,216
30	White River	47,216	63	Rolling Creek	19,216
31	White River	47,216	64	Rolling Creek	19,216
32	White River	47,216	65	Rolling Creek	19,216
33	White River	47,216	66	Rolling Creek	19,216

WATERSHED PROTECTION (PILOT)

Name	Drainage Area (Acres)
Double Creek	30,250

WATERSHED PROTECTION AND FLOOD PREVENTION (PL. 566)

Watershed Number	Name	Drainage Area (Acres)	Watershed Number	Name	Drainage Area (Acres)
1	Little Washita Creek	122,405	42	Upper Blue River	220,103
2	Big Washita Creek	172,529	43	Lower Blue River	220,103
3	Sage Creek	142,242	44	Sage Creek	142,242
4	Long Branch	22,882	45	Upper Blue	142,242
5	Lower Blue	122,405	46	Sage Creek	142,242
6	Carry Creek	20,341	47	Sage Creek	142,242
7	Little Sheep Fork Creek	167,580	48	Sage Creek	142,242
8	Sage Creek	122,405	49	Sage Creek	142,242
9	Prize Creek	182,453	50	Sage Creek	142,242
10	Little Sheep Fork Creek	167,580	51	Sage Creek	142,242
11	Prize Creek	182,453	52	Sage Creek	142,242
12	Prize Creek	182,453	53	Sage Creek	142,242
13	Prize Creek	182,453	54	Sage Creek	142,242
14	Prize Creek	182,453	55	Sage Creek	142,242
15	Prize Creek	182,453	56	Sage Creek	142,242
16	Prize Creek	182,453	57	Sage Creek	142,242
17	Prize Creek	182,453	58	Sage Creek	142,242
18	Prize Creek	182,453	59	Sage Creek	142,242
19	Prize Creek	182,453	60	Sage Creek	142,242
20	Prize Creek	182,453	61	Sage Creek	142,242
21	Prize Creek	182,453	62	Sage Creek	142,242
22	Prize Creek	182,453	63	Sage Creek	142,242
23	Prize Creek	182,453	64	Sage Creek	142,242
24	Prize Creek	182,453	65	Sage Creek	142,242
25	Prize Creek	182,453	66	Sage Creek	142,242
26	Prize Creek	182,453	67	Sage Creek	142,242
27	Prize Creek	182,453	68	Sage Creek	142,242
28	Prize Creek	182,453	69	Sage Creek	142,242
29	Prize Creek	182,453	70	Sage Creek	142,242
30	Prize Creek	182,453	71	Sage Creek	142,242
31	Prize Creek	182,453	72	Sage Creek	142,242
32	Prize Creek	182,453	73	Sage Creek	142,242
33	Prize Creek	182,453	74	Sage Creek	142,242
34	Prize Creek	182,453	75	Sage Creek	142,242
35	Prize Creek	182,453	76	Sage Creek	142,242
36	Prize Creek	182,453	77	Sage Creek	142,242
37	Prize Creek	182,453	78	Sage Creek	142,242
38	Prize Creek	182,453	79	Sage Creek	142,242
39	Prize Creek	182,453	80	Sage Creek	142,242
40	Prize Creek	182,453	81	Sage Creek	142,242
41	Prize Creek	182,453	82	Sage Creek	142,242
42	Prize Creek	182,453	83	Sage Creek	142,242
43	Prize Creek	182,453	84	Sage Creek	142,242
44	Prize Creek	182,453	85	Sage Creek	142,242
45	Prize Creek	182,453	86	Sage Creek	142,242
46	Prize Creek	182,453	87	Sage Creek	142,242
47	Prize Creek	182,453	88	Sage Creek	142,242
48	Prize Creek	182,453	89	Sage Creek	142,242
49	Prize Creek	182,453	90	Sage Creek	142,242
50	Prize Creek	182,453	91	Sage Creek	142,242
51	Prize Creek	182,453	92	Sage Creek	142,242
52	Prize Creek	182,453	93	Sage Creek	142,242
53	Prize Creek	182,453	94	Sage Creek	142,242
54	Prize Creek	182,453	95	Sage Creek	142,242
55	Prize Creek	182,453	96	Sage Creek	142,242
56	Prize Creek	182,453	97	Sage Creek	142,242
57	Prize Creek	182,453	98	Sage Creek	142,242
58	Prize Creek	182,453	99	Sage Creek	142,242
59	Prize Creek	182,453	100	Sage Creek	142,242

CHICKASAW HILLS R.C. & O. PROJECT HYDROLOGIC UNIT

NUMBER	NAME	DRAINAGE AREA (Acres)
CH-1	Chickasaw Hills	12,254
CH-2	Chickasaw Hills	12,254
CH-3	Chickasaw Hills	12,254
CH-4	Chickasaw Hills	12,254
CH-5	Chickasaw Hills	12,254

GUADALUPE MOUNTAINS R.C. & O. PROJECT HYDROLOGIC UNIT

NUMBER	NAME	DRAINAGE AREA (Acres)
GU-1	Guadalupe Mountains	5,402

- Red line - Proposed
- Red line - Under Construction
- Red line - Completed
- Red line - Pending

- Other Water Resources Projects
- Existing in Under Construction
- Under Construction
- Completed

WATERSHED PROTECTION AND FLOOD PREVENTION PROGRESS MAP (SHOWING STATUS OF STRUCTURES) OF OKLAHOMA

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
SULLY, OKLAHOMA

